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Table of Contents





Oracle Database Administration, The Essential Reference

- Copyright
- Dedication
- Preface
- DBA Tasks
- Appendix:Resources for the DBA
- Index

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Oracle Database Administration, The Essential Reference

By David C. Kreines, Brian Laskey

Publisher: O'Reilly Pub Date: April 1999 ISBN: 1-56592-516-5

Pages: 577 Slots: 1.0

Table of Contents | Index | Examples | Errata

Overview

A concise reference to the enormous store of information Oracle8 or Orac day, Oracle Database Administration covers DBA tasks like installation, 1 networking, auditing, and query optimization. It's also a set of quick refere parameters, SQL statements, data dictionary tables, system privileges, role

Editorial Reviews

Book Description

Oracle database administration requires a vast amount of information and an ability to $\mathfrak p$ -from installation to tuning to network troubleshooting to overall daily administration. O for performing these tasks; the trick is knowing what tool is right for the job, what comr

- ⊞ Enterprise Computing
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<u>Database</u>

Reader Reviews From Amazon

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Average Customer Rating: 🌣🌣🌣 based on 23 reviews.

Oracle, The Essential Reference Review, 2002-08-10

Reviewer rating: 含氮烷氮分

I've worked on Oracle before, but I certainly wished I had this handy

found sorely lacking was the installation chapter which glossed over options and made assumptions that did not always apply to real-world situations. However to be fair, an accurate coverage of Oracle installations and all the pitfalls would probably take several books.

The first part of the book serves it's purpose in getting anyone with some DBA knowledge up and running on Oracle. Practice is vital to understanding the concepts explained in this section. I highly recommend executing the queries and peeking into the INIT.ORA files when necessary or else most of the concepts will escape you.

The second part of the book consists of DBA Reference chapters. Particularly valuable is the SQL syntax and Oracle Data Dictionary chapters. Again, very concise and does a good job of explaining the subject without being confusing.

All in all, a useful book to have around, especially for those supporting older Oracle installations. Relies heavily on other resources, although it does help in navigating the Oracle course.

An excellent reference book!, 2001-02-14

Reviewer rating: 含含含含含

This is an excellent reference book. I am an experienced Oracle DBA and I use it as a $q\iota$ are well organized and to the point. David Kreines and Brian Laskey have done an excel

How can 130pages for 7 chapters clearly explain DBA's work?!, 2000-11-22 Reviewer rating: 金金金金

Can't understand why someone gives it 5*, ... worse than handbook and document cam

I have this book at my hand, it used only 130 pages (p1-p130) to cover all OCP test cor unbelieveable....

A very useful reference book. Keep it to hand !, 2000-06-23

Reviewer rating: 含物分類

This book serves it purpose very well. As the title says, it is an essential reference, and it for.

As some other reviewers point out, there is a lot of copy-and-paste work in it. But I thin

In fact, very often it is much practical than navigating the bulk of on-line books, when y browser to load, search for a word or topic, or even when there's no computer at hand, it around in my bag when necessary.

I especially would like to emphasize the coverage of SQL commands, init.ora parameter and utilities.

Although I agree there are some inconsistent topics in this book and some mistakes as ι who complain about it either expected something very different or did not understand h:

Sometimes useful companion, 2000-04-03

Reviewer rating: 效效效效

I really didn't like this book in the beginning. Why? Most of the time I'm using an on-line reference and original Oracle documentation set for studying material larger than a few you remember Oracle Book?;-) this kind of reference guide would be a rescue for any I The organization of the book is quite good, index is excellent and some chapters are mo

the subject. When I'm not working on the site where I can easily reach on-line documen then this book goes with me. One drawback at the time of writing this review is that this Oracle8i so you should at least wait for the second edition.





Oracle Database Administration, The Essential Reference

Star

By David C. Kreines, Brian Laskey

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Book: Oracle Database Administration, The Essential Reference

Section: Part II: DBA Reference

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Chapter 14. The Oracle Data Dictionary

The Oracle data dictionary is a collection of tables and related views that enable you to see the inner workings and structure of the Oracle database. By querying these tables and views, you can obtain information about every object and every user of the database. For example, you can determine the amount of I/O to each datafile, the values of the INIT.ORA parameters, and much more. All of the Oracle monitoring tools look at the information available in the data dictionary and present it in an easy-to-use format.

Traditionally, the data dictionary has consisted of a series of views owned by SYS. These views, known as static data dictionary views, present information contained in tables that are updated when Oracle processes a DDL statement. The SYS tables and views, as well as a set of public synonyms for the views, are all created by the catalog.sql script. In addition, the installation of some Oracle features creates tables and views in the SYSTEM schema. In general, tables and views owned by SYSTEM exist to support functionality provided by PL/SQL stored procedures rather than fundamental Oracle functionality.

An additional set of views is composed of the *dynamic performance data dictionary views*, commonly referred to as the *V3 views* (or, mistakenly, as the *V5* tables). These *V5* views are based on a set of internal memory structures maintained by Oracle as virtual tables, which all begin with an "X5" prefix. Just as the static data dictionary views provide information about the database, the *V5* views and the underlying *X5* tables provide information about the instance.

Table 14.1 distinguishes between the types of information you will find in the static data dictionary views and in the dynamic performance data dictionary views.

Table 14.1. Basic Data Dictionary Divisions

If You Need to Find Information About	Use These Data Dictionary Views
Database objects	Static data dictionary views
Instance objects	Dynamic performance data dictionary views
Database data files	Static data dictionary views
Archive log files	Dynamic performance data dictionary views
Users allowed to access the database	Static data dictionary views
Users currently connected to the database	Dynamic performance data dictionary views

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	Section Title	Book Title
1.	Data Dictionary	Oracle in a Nutshell By Rick Greenweld, David C. Kreines
2.	The Oracle Data Dictionary	e-Commerce Applications Using Oracle8i and Java from Scratch
3.	Lab 13.1 The Oracle Data Dictionary Views	Oracle® SQL by Example, Third Edition By Alice Rischert
4.	Static Data Dictionary Views	Oracle in a Nutshell By Rick Greenwald, David C. Kreines
5.	Oracle's Data Dictionary Views	Oracle SQL*Plus: The Definitive Guide, 2nd Edition By Jonathan Gennick
6.	Common Views and Their Uses	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 120- 031) By April Wells
7.	Dynamic Data Dictionary Views	Oracle in a Nutshell By Rick Greenwald, David C. Kreines
8.	How the Data Dictionary Is Used	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 120- 031) By April Wells
9.	Accessing Data Dictionary and Dynamic Performance Views	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0- 031) Gy April Wells
10). The Static Data Dictionary Views	Oracle® SQL by Example, Third Edition By Alice Rischert

Book: Oracle in a Nutshell **Section:** Part I: Foundations

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Chapter 6. Data Dictionary

The Oracle data dictionary is a collection of tables and related views that enable you to see the inner workings and structure of the Oracle database. By querying these views, you can obtain information about every object and every user of the database. All of the Oracle monitoring tools look at the information available in the data dictionary and present it in an easy-to-use format.

Traditionally, the data dictionary has consisted of a series of views owned by the SYS user. These views, known as static data dictionary views, present information contained in tables that are updated when Oracle processes a DDL statement. The SYS tables and views, as well as a set of public synonyms for the views, are all created by the catalog sql script. In addition, the installation of some Oracle features creates tables and views in the SYSTEM schema. In general, tables and views owned by SYSTEM exist to support functionality provided by PL/SQL stored procedures (described in Chapter 9) rather than fundamental Oracle functionality.

A second set of views is known as the *dynamic performance data dictionary views*, commonly referred to as the *V*\$ views. These V\$ views are based on a set of internal memory structures maintained by Oracle as virtual tables, which all begin with an "X\$" prefix. Just as the static data dictionary views provide information about the database, the V\$ views and underlying X\$ tables provide information about the active instance.

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2. The Oracle Data Dictionary	e-Commerce Applications Using Oracle8i and Java from Scratch
3. Lab 13.1 The Oracle Data Dictionary Views	Oracle® SQL by Example, Third Edition By Alice Rischert

4. Oracle's Data Dictionary Views	Oracle SQL*Plus: The Definitive Guide, 2nd Edition
•	Ry Innathan Connect

031) By April Wells

Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0-6. How the Data Dictionary Is Used

031) By April Wells

7. Accessing Data Dictionary and Dynamic Performance Views Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0-

031) By April Wells

8. Static Data Dictionary Views Oracle Database Administration, The Essential

Reference

By David C. Kreines, Brian Laskey

9. Describing the Data Dictionary Views in an Oracle Database SQL Cookbook

By Anthony Molinaro

10. Data Dictionary Content and Usage

Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0-

031) By April Wells

Book: Oracle Database Administration, The Essential Reference

Section: Part I: DBA Tasks

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Chapter 1. Introduction

Welcome to the world of Oracle database administration! This chapter provides an overview of Oracle database administration, and supplies some basic information required to understand the structure and characteristics of the Oracle database.

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- 3. Configuring and Using the Oracle Applications
- 4. Loosely Coupled Federation
- 5. The Oracle Security Model
- 6. Introduction to Distributed Systems
- 7. Oracle Database Objects
- 8. The Instance and the Database: Starting an Oracle **Database**
- 9. Implementing Security
- 10. Security in an oracle System

Book Title

By William Heney, Madena Thericult

Oracle Security

By William Heney, Marlene Therault

Special Edition Using Oracle® 11i

By BOSS Corporation

Oracle Distributed Systems

By Charles Dye

Oracle Security

By William Heney, Madena Thericult

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Table of Contents | Index | Examples | Errata | Additional Reading

Oracle Database Administration, The Essential Reference

- Copyright
- Dedication
- □ Preface
- DBA Tasks
 - Introduction
 - Oracle Database Administration
 - Drade Architecture
 - Software Options
 - **Onfiguration** Planning
 - 3 Installation
 - Maximizing Oracle Performance
 - M- Preventing Data Loss
 - Oracle Networking
 - 3 Security and Monitoring
 - ⊕ Auditing

 - Oracle Tools
- DBA Reference
- ☼ Appendix:Resources for the DBA
- Colophon
- ☑ Index

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1.1. Oracle Database Administration

If one hundred Oracle database administrators were asked to define what a would probably result in one hundred different descriptions. Nonetheless, t degree of commonality among these descriptions, and taken as a whole the a fairly accurate job description for an Oracle DBA.

When Educational Testing Service (ETS) set out to develop a certification DBAs a few years ago, the company's first step was to perform a job analy. way of evaluating and describing a job. The process ETS followed include:

- 1. A group of experts was asked to assemble a laundry list of the tasks. required of a DBA. A survey instrument was developed that listed th rating scale for the importance of each item.
- 2. The survey was administered to a large number of Oracle DBAs arou
- 3. The survey results were tabulated, yielding an average importance ra and ability. Those falling below a predetermined cutoff level were el

The result was a detailed description of the tasks performed by a DBA, and knowledge and abilities required to perform those tasks. This DBA job ana blueprint for the Certified Oracle Database Administrator examination.

1.1.1. A DBA Job Description

Here is a summary of the DBA job description that resulted from the ETS: following elements with "An Oracle DBA must be able to...."

- 39- Artificial Intelligence
- Business

- **⊞** Databases
- **₩** Desktop Applications
- Desktop Publishing

- Enterprise Computing
- ⊕ Graphics
- ⊕ Hardware
- Human-Computer Interaction
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- **₩** Software Engineering

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Oracle architecture and options

- Demonstrate an understanding of the memory structures and p an Oracle instance
- Demonstrate an understanding of the logical and physical structure.
 Oracle database
- Demonstrate an understanding of PL/SQL constructs (triggers, procedures) and their processing
- Demonstrate an understanding of distributed architecture and c
- Demonstrate an understanding of locking mechanisms

Security

- 'Create, alter, and drop database users
- Monitor and audit database access
- Develop and implement a strategy for managing security (role authentication)
- Demonstrate an understanding of the implications of distribute security model

Data administration

- Manage integrity constraints
- Implement the physical database from the logical design
- Evaluate the implications of using stored procedures and const business rules

Backup and recovery

- Understand backup options
- Develop backup and recovery strategies
- Manage the implementation of backup procedures

Recover a database

Software maintenance and operation

- Install and upgrade Oracle and supporting products
- Configure the Oracle instance using the initialization paramete
- Configure and manage SQL*Net
- Distinguish among startup and shutdown options
- Create a database
- Demonstrate an understanding of the capabilities of underlying they relate to the Oracle database

Resource management

- · Create and manage indexes
- Evaluate the use of clusters and hash clusters
- Allocate and manage physical storage structures (e.g., datafile: files)
- Allocate and manage logical storage structures (e.g., tablespac
- Control system resource usage by defining proper profiles
- Perform capacity planning

Tuning and troubleshooting

- Diagnose and resolve locking conflicts
- Use data dictionary tables and views
- Monitor the instance
- Collect and analyze relevant database performance information
- Identify and implement appropriate solutions for database perf

- Use vendor support services when necessary
- Solve SQL*Net problems

In short, the DBA is responsible for installing the Oracle database, ke performance, and attending to the day-to-day administrative needs of database.

1.1.2. The DBA and This Book

The authors of this book were members of the expert panel assembled by E heavily on the DBA job, analysis when we developed our content outline.

1.1.2.1. The tasks DBAs do

We recognized that the job of a DBA is composed of a number of major ta: installation, configuration, backup and recovery, networking, and much mc organized around these tasks. In fact, the chapters in Part I are presented in similar to the order in which a DBA will be likely to perform each task; the 2) comes before configuration (Chapter 3), which comes before backup and In each chapter, we try to present the basic information that a working DB, the tasks associated with that chapter.

1.1.2.2. The information DBAs need

No matter how experienced an Oracle DBA is, there is a huge amount of ir cannot be committed to memory, but must be looked up. Examples include architecture, configuration parameters, the syntax of a particular SQL state options for an Oracle utility. Part II of this book organizes this vast array or relevant chapters that are designed to make it easy for the DBA to quickly: information for the task he or she is working on.

An experienced DBA knows that a well-managed Oracle database doesn't j planning—lots of planning. In the remainder of this chapter, we'll provide look at Oracle. We will introduce the Oracle architecture and discuss some the Oracle software. Finally, we'll provide you with many questions, and sl implement your database based on your answers.

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Section Title

1. Installing Oracle Securely

2. Managing Oracle

3. The Oracle Security Model

4. Major Parts of the Installation

5. Use What's Already There

6. The Instance and the Database: Starting an Oracle Database

7. The DBA Toolkit and Security

8. A Look Inside Oracle's Data Dictionary

9. Using Extra-Cost Options

10. Books for Oracle database administration and tuning

Boc

Oracle Security

By William Heney, Martene Theriat

Oracle Essentials: Oracle | By Rick Greenwald, Robert Stacko-

Oracle Security

By William Heney, Marlene Theriat

Guerrilla Oracle®: The Su

By Richard J. Staron

Oracle® DBA Automation

By Charlie Russel, Robert Cordingl

Oracle Security

By William Heney, Marlene Theriet

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By William Heney, Madena Theria:

Sams Teach Yourself SQL By Ryan K. Stephens, Ronald R.:

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By William Heney, Madena Therial

Database Performance Tu By Budi Darmawan, Gary Groenew Soares Monteiro, Keirnan M. Snec

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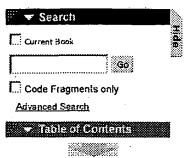
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Table of Contents | Index | Examples | Errata | Additional Reading

Copyright

Dedication

Preface

B DBA Tasks

🖫 Introduction

Installation

Media Selection

The Oracle Installer

Installable Components

Dependencies

Pre-Installation
Checklist

Critical Decisions

Post-Installation Tasks

Maximizing Oracle
Performance

Preventing Data Loss

Oracle Networking

3 Security and Monitoring

Auditing

Query Optimization

⊕ Oracle Tools

DBA Reference

Appendix:Resources for the DBA

D Colophon

□ Index

Chapter 2. Installation

It probably goes without saying, but Oracle installation is a prerequisite to administration topics mentioned in this book. Installation is probably one o tasks a DBA will perform.

Oracle runs on a wide variety of hardware platforms, from personal compu mainframes, and there is a corresponding variety of installation methodolo; an overview of the Oracle installation process and the tools provided by Or installation. We'll give you the critical information you need to complete as both function now and be maintainable in the future. However, this chapter appropriate *Oracle Installation and User's Guide* for your platform. Althout DBAs, we begin every installation with a careful review of the appropriate and we urge you to do the same.

To successfully complete an Oracle installation, you must perform the follow

- Make pre-installation decisions.
- Obtain appropriate media.
- Install the Oracle software.
- Create a database.
- Configure the database.

We'll discuss each of these tasks in this chapter. See Figure 2.1 for an outli

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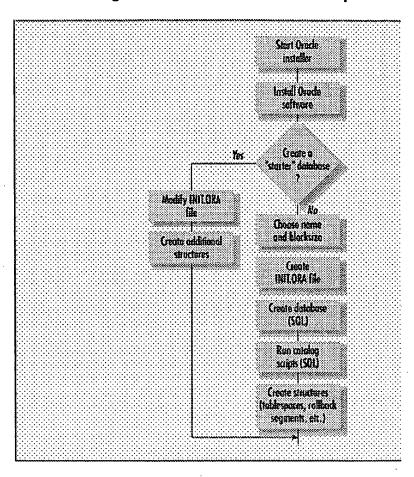
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- Business
- ⊕ Computer Science
- ⊕ Databases
- ⊕ Desktop Applications
- Desktop Publishing
- ⊕ E-Commerce
- Enterprise Computing
- ⊕ Graphics
- ⊞ Hardware
- Human-Computer
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- → Multimedia
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- ⊕ Programming
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Figure 2.1. The Oracle installation process



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1. Installing 10g on UNIX/Linux

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2.	Installing 10g on Windows	Oracle® Database 10g In: By Arun Kumar R., John Kanagare
3.	Oracle Universal Installer	Oracle® DBA Automation By Charlie Russel, Robert Cordingl
4.	Installation Decisions	Oracle® Database 10g In: By Arun Kumar R., John Kenagara
5.	Companion CD Installation and Patches (All Platforms)	Oracle® Database 10g In: By Arun Kumar R., John Kanegare
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■ Table of Contents

•

Oracle Database Administration, The Essential Reference 6

Desktop

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Table of Contents | Index | Examples | Errata

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Preface

₩ DBA Tasks

DBA Reference

- Appendix:Resources for the DBA
- Colophon
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Chapter 11. The Oracle Database

In Chapter 10, we introduced the Oracle instance, and explained that the terms *instance* and *database* are often used interchangeably. This chapter provides information about the physical structures that make up an Oracle database, which is accessed by means of the Oracle instance.

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Section Title

- 1. Oracle Architecture Components
- 2. Oracle Instances and Databases
- 3. Oracle8i Architecture
- 4. Instances and Databases
- 5. The Instance and the Database: Starting an Oracle Database
- 6. Data Structures
- 7. Configuring and Using the Oracle Applications
- 8. Using Extra-Cost Options
- 9. Oracle System Files

Book Title

Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 120-031) By April Wells

Oracle in a Nutshell By Rick Greenwald, David C. Kreines

e-Commerce Applications Using Oracle8i and Java from Scratch

Oracle Essentials: Oracle Database 10g, 3rd Edition By Rick Greenwald, Robert Stackowiak, Jonathan Stern

Oracle Security
By William Heney, Marlene Theriault

Oracle Essentials: Oracle Database 10g, 3rd Edition By Rick Greenwald, Robert Stackowiak, Jonathan Stem

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10. Oracle Database Objects

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Chapter 14. The Oracle Data Dictionary

The Oracle data dictionary is a collection of tables and related views that enable you to see the inner workings and structure of the Oracle database. By querying these tables and views, you can obtain information about every object and every user of the database. For example, you can determine the amount of I/O to each datafile, the values of the INIT.ORA parameters, and much more. All of the Oracle monitoring tools look at the information available in the data dictionary and present it in an easy-to-use format.

Traditionally, the data dictionary has consisted of a series of views owned by SYS. These views, known as static data dictionary views, present information contained in tables that are updated when Oracle processes a DDL statement. The SYS tables and views, as well as a set of public synonyms for the views, are all created by the catalog sql script. In addition, the installation of some Oracle features creates tables and views in the SYSTEM schema. In general, tables and views owned by SYSTEM exist to support functionality provided by PL/SQL stored procedures rather than fundamental Oracle functionality.

An additional set of views is composed of the dynamic performance data dictionary views, commonly referred to as the V3 views (or, mistakenly, as the V\$ tables). These V\$ views are based on a set of internal memory structures maintained by Oracle as virtual tables, which all begin with an "X\$" prefix. Just as the static data dictionary views provide information about the database, the V\$ views and the underlying X\$ tables provide information about the instance.

Table 14.1 distinguishes between the types of information you will find in the static data dictionary views and in the dynamic performance data dictionary views.

Table 14.1. Basic Data Dictionary Divisions

If You Need to Find Information About	Use These Data Dictionary Views
Database objects	Static data dictionary views
Instance objects	Dynamic performance data dictionary views
Database data files	Static data dictionary views
Archive log files	Dynamic performance data dictionary views
Users allowed to access the database	Static data dictionary views
Users currently connected to the database Dynamic performance data dictionary views	

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	Section Title	Book Title
1.	Data Dictionary	Oracle in a Nutshell By Rick Greenwald, David C. Kreines
2.	The Oracle Data Dictionary	e-Commerce Applications Using Oracle8i and Java from Scratch
3.	Lab 13.1 The Oracle Data Dictionary Views	Oracle® SQL by Example, Third Edition By Alice Rischert
4.	Static Data Dictionary Views	Oracle in a Nutshell By Rick Greenwald, David C. Kreines
5.	Oracle's Data Dictionary Views	Oracle SQL*Plus: The Definitive Guide, 2nd Edition By Jonathan Gennick
6.	Common Views and Their Uses	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0- 031) By April Wells
7.	Dynamic Data Dictionary Views	Oracle in a Nutshell By Rick Greenwald, David C. Kreines
8.	How the Data Dictionary Is Used	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0- 031) By April Wells
9.	Accessing Data Dictionary and Dynamic Performance Views	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0- 031) By Aprii Wells
10	. The Static Data Dictionary Views	Oracle® SQL by Example, Third Edition By Alice Rischert

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Chapter 15. System Privileges and Initial Roles

Privileges in Oracle are divided into two classes: system and object. System privileges define what actions you are allowed to take within the database. Object privileges define what you are allowed to do to a specific object, such as a table, a view, or a sequence. This chapter discusses the system privileges available in Oracle8. Object privileges are described in Chapter 6.

In addition, Oracle recognizes certain roles that behave in a manner similar to system privileges, and this chapter discusses the six initial, or default, roles created with each database and the nine roles created by optional scripts during the standard database creation process.

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Section Title	Book Title
1. Privileges	Oracle in a Nutshell By Rick Greenwald, David C. Kreines
2. Managing Privileges	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0- 031) By April Wells
3. What Are Privileges?	Sams Teach Yourself SQL® in 24 Hours, Third Edition By Ronald R. Piew, Ryan K. Stephens
4. Privileges	Oracle Security By William Henry, Marlene Therault
5. What Are Privileges?	Sams Teach Yourself SQL in 24 Hours, Second Edition By Ronald R. Piew, Ryan K. Stephens
6. System Privileges	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0- 031) By Aprii Weils
7. Object Privileges	Oracle 9i Fundamentals I Exam Cram™ 2 (Exam 1Z0- 031)

- 8. Grant
- 9. Privilege Levels

Oracle® DBA SQL Quick Reference By Charlie Russel, Robert Cordingley MySQL® Tutorial By Luke Welling, Laura Thomson





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- Copyright
- Dedication
- Preface
- **⊞** DBA Tasks
- - The Oracle Instance :
 - The Oracle Database
 - 湖· Initialization Parameters
 - SQL Statements for the
 - H The Oracle Data Dictionary
- System Privileges and Initial Roles
 - Actions, Privileges, and Roles
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 - ☑ Initial Roles
 - Initial Users
 - Tools and Utilities
- Appendix:Resources for the DBA
- Colophon
- 🖺 Index

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3. What Are Privileges?

4. Privileges

5. What Are Privileges?

6. System Privileges

7. Object Privileges

8. Grant

9. Privilege Levels

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